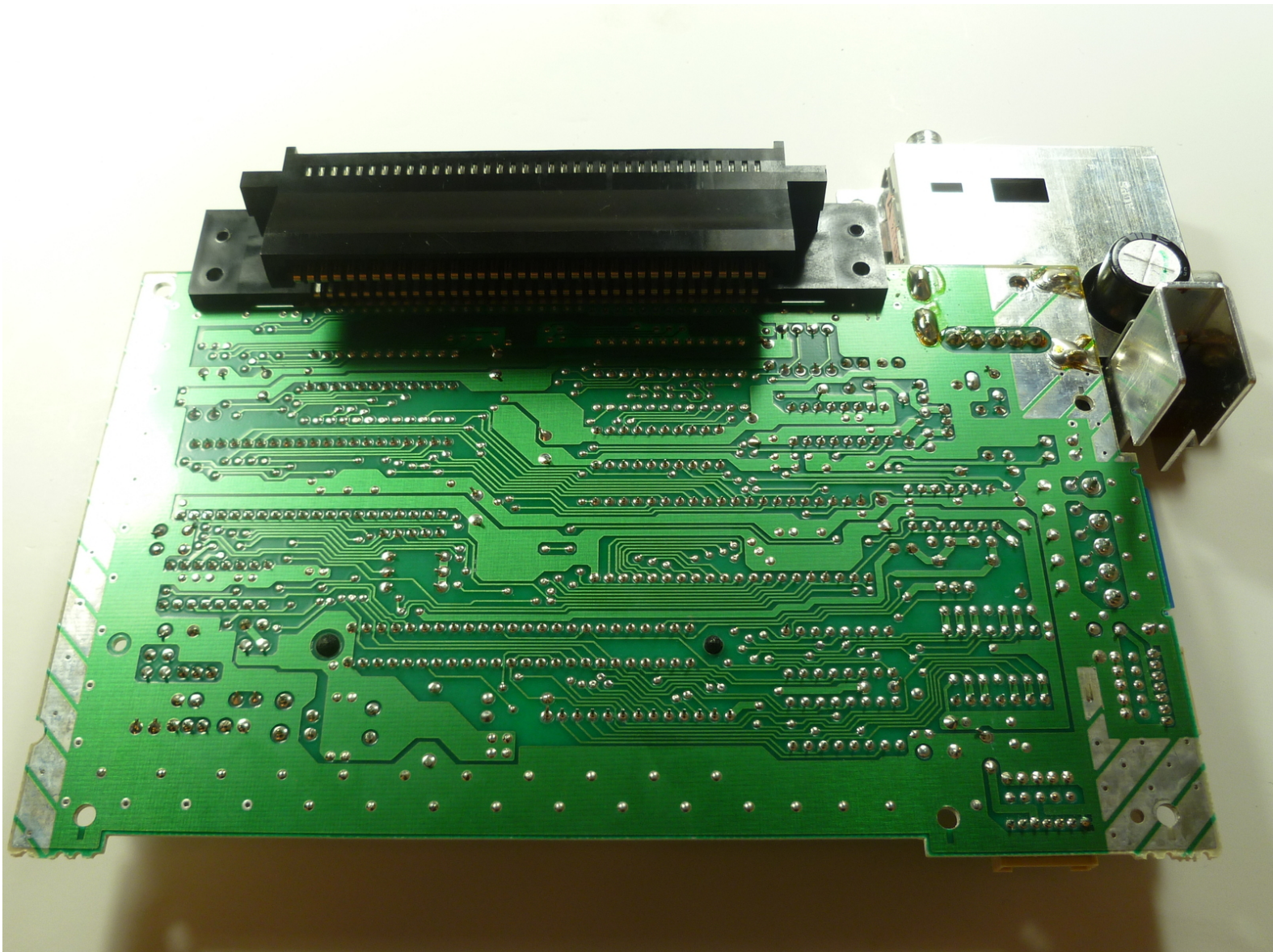




Nintendo Entertainment System Motherboard Replacement

Disassemble the NES so that you can replace the motherboard.

Written By: nicholasweiser



INTRODUCTION

If the motherboard is broken, then follow our guide to help take the game console apart and remove the motherboard.



TOOLS:

- [Flathead 3/32" or 2.5 mm Screwdriver](#) (1)
- [Phillips #2 Screwdriver](#) (1)



PARTS:

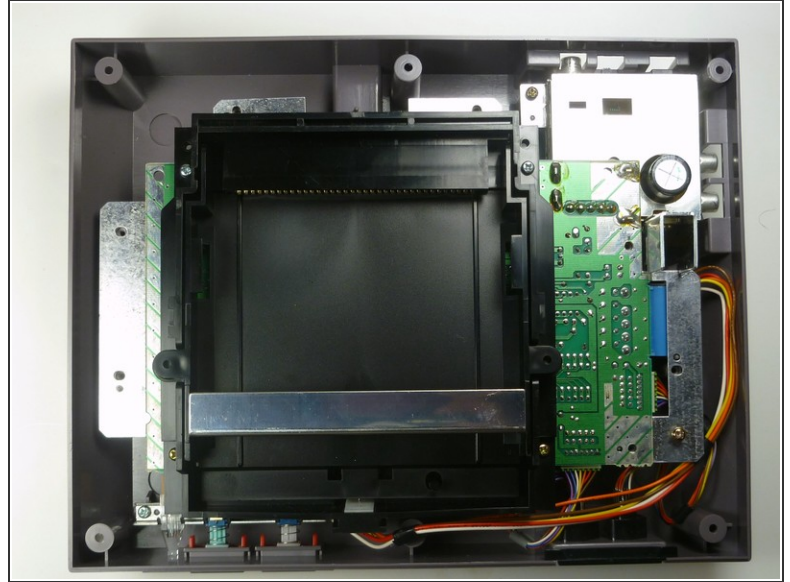
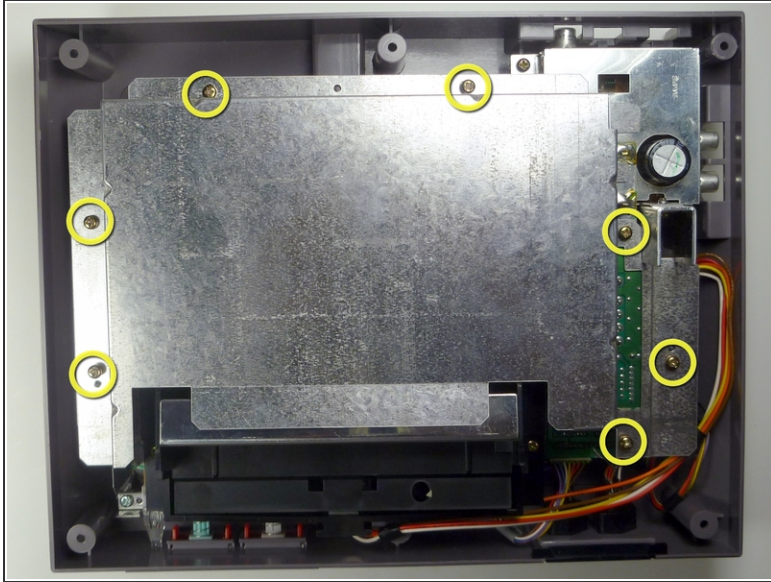
- [Nintendo NES-001 Motherboard](#) (1)
- [Nintendo NES-001 Top Case](#) (1)
- [Nintendo NES-001 Bottom Case](#) (1)
- [Nintendo NES-001 Power/Reset Buttons and Connectors](#) (1)
- [Nintendo NES-001 Chassis](#) (1)

Step 1 — Game Cartridge Tray



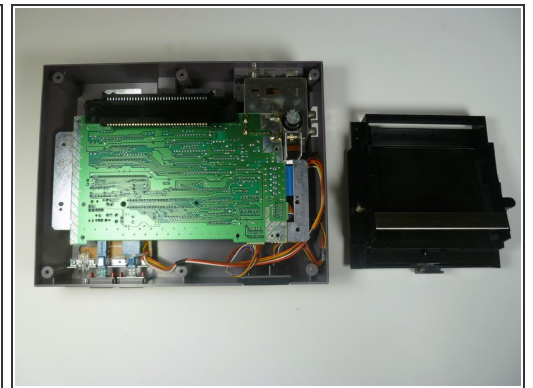
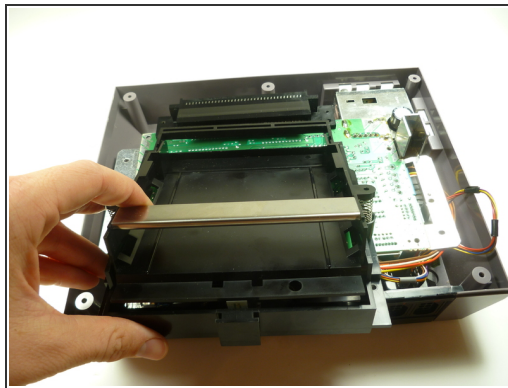
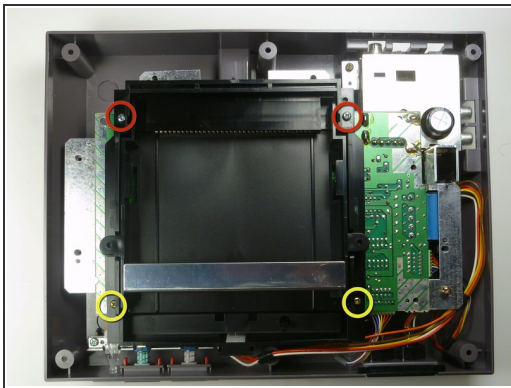
- Remove the six 13.25mm Phillips screws on the bottom of the game console with a #2.5 flathead screwdriver.
- ⓘ The screws are recessed about 40 mm.
- Flip the game console right side up and take off the top by pulling it up and away from the rest of the device with your hands.

Step 2



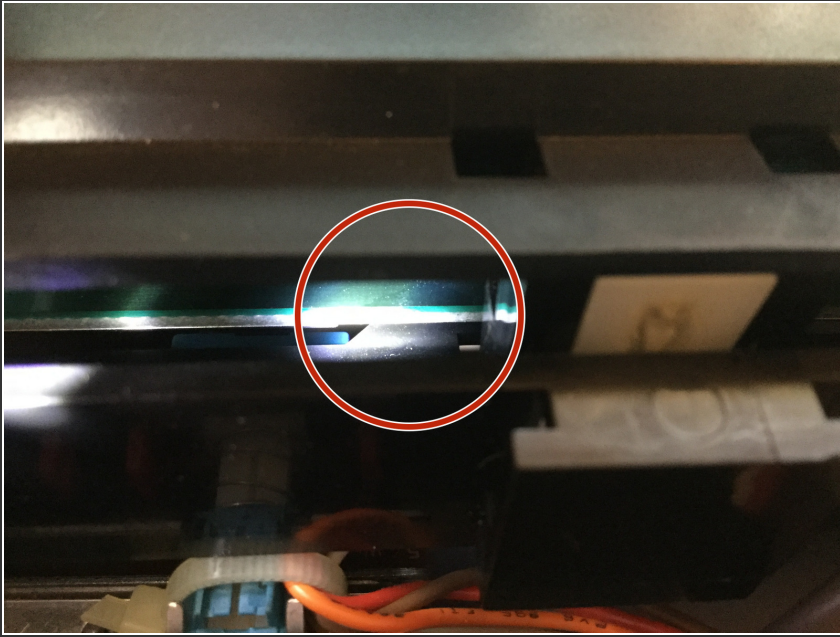
- Remove the seven 13.25mm Phillips screws from the metal cover with a Phillips head #2 screwdriver.
- Remove the metal cover by pulling it up and away from the rest of the console with your hands.

Step 3




- Remove the two silver 17.45mm Phillips screws from the cartridge tray using a Phillips head #2 screwdriver.
- Remove the two bronze 13.25mm Phillips screws from the cartridge tray using a Phillips head #2 screwdriver.
- Slide the cartridge tray toward you, away from the 72-PIN connector, and off the motherboard assembly.

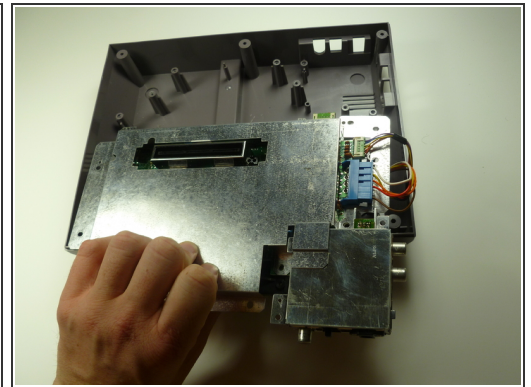
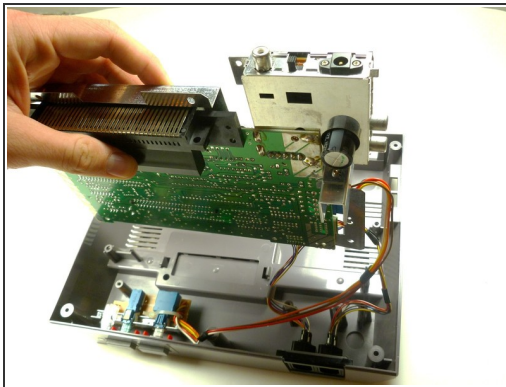
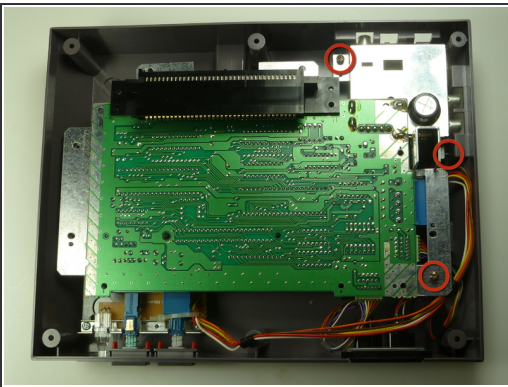
Step 4




- Underneath the cartridge tray is a black tab/lip (see marker).

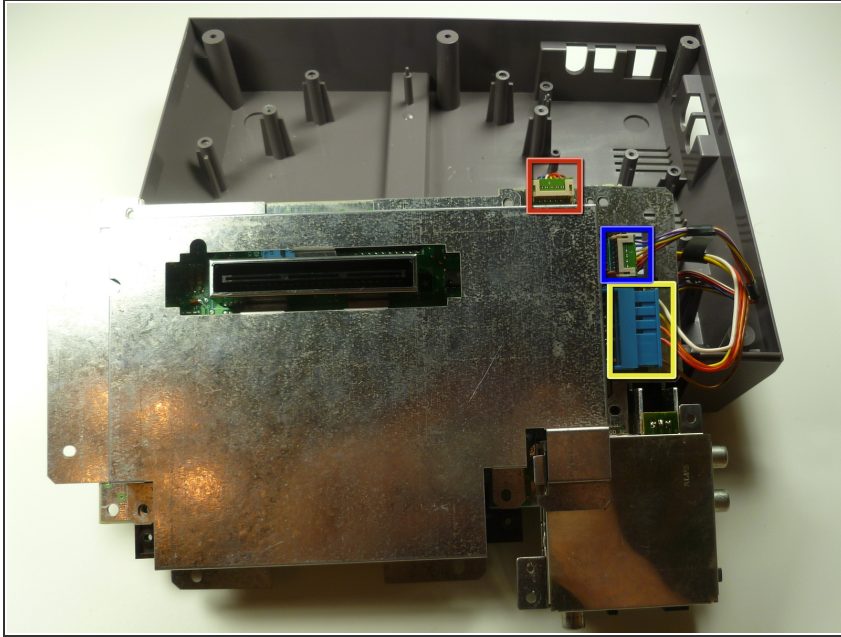
 Make sure you orient this tab underneath the motherboard in addition to orienting the tray on top. Failure to do so will bow the cartridge tray and place stress on the component.

Step 5 — Motherboard



- Remove the three 13.25mm Phillips screws that secure the motherboard to the lower case with a Phillips head #2 screwdriver.
- Pull the motherboard assembly straight up and out of the plastic case with your hands.
-  Turn the motherboard assembly over so the metal cover is facing you.

Step 6

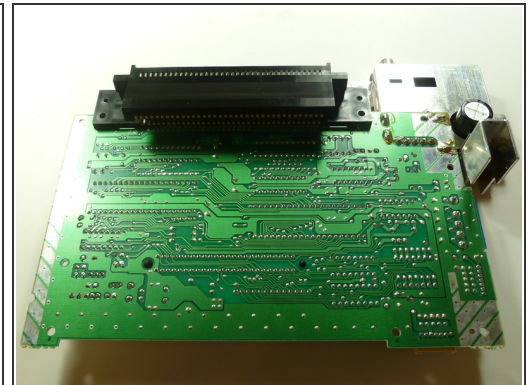
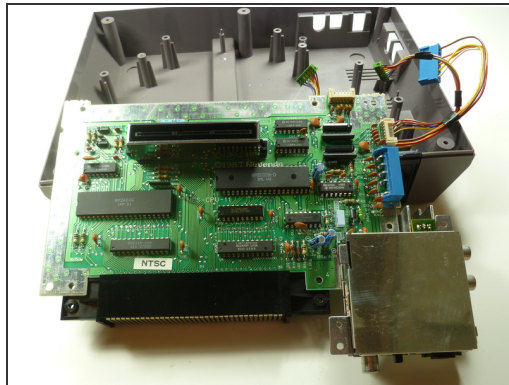
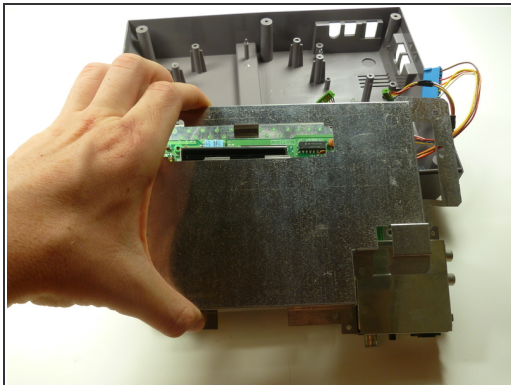


- Disconnect the wire harnesses from the motherboard assembly:

- Player 1
- Player 2
- Power

- ☑ Make sure you remember where player 1 and player 2 cables are plugged in; do not mix them up. A good technique would be to write each title on a piece of tape and wrap them around the appropriate wire.

Step 7



- Lift off the EMI shield (metal cover) from the motherboard assembly.
- ⓘ Turn over the motherboard assembly so the 72-PIN connector is on the top of the motherboard assembly.

To reassemble your device, follow these instructions in reverse order.

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